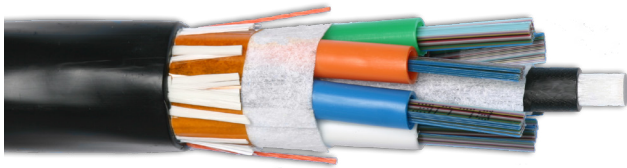


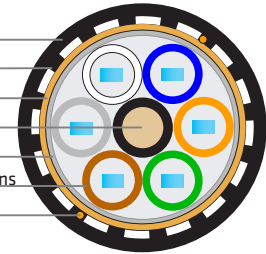


## MassLink™ Indoor/Outdoor Ribbon

Multi-Tube Ribbon cable for transitional aerial and duct applications



- Flame Retardant Jacket
- Outer Strength Members
- Flame Retardant Tape
- Central Strength Member
- Water Blocking Tape
- Gel-Filled Buffer Tube w/ Optical Fiber Ribbons
- Ripcord



### Features and Benefits

#### Indoor/Outdoor Design

- Saves space and time by eliminating splices at the cable vault
- Can be installed using typical loose tube cable methods and hardware

#### Flame Retardant Construction

- Riser design complies with UL 1666 and is OFNR and OFN-FT4 rated
- LSZH design complies with UL 1685 and is OFN-LS and OFN-FT1 rated

#### Compact Design

- Efficient packaging of higher fiber counts
- Lightweight and easy to handle during installation

#### Easily Removable Ribbon Matrix

- Allows for ease of stripping and fiber breakout
- Improves mid-span strippability

#### Precision Ribbon Geometry

- Time and labor savings during fiber splicing

#### Flexible Buffer Tubes

- Increased flexibility and kink resistance
- Facilitates route management in closures
- Eliminates need for closure transportation tubing

#### Multiple Buffer Tubes Stranded in Reverse Oscillated Lay

- Facilitates mid-span access of fibers
- Simplifies handling and management of ribbons
- Individual fibers/ribbons can be accessed more quickly and safely

#### Registered Supplier

- ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

### PERFORMANCE SPECIFICATIONS

#### Bend Radius

Dynamic	20 x Cable OD
Static	10 x Cable OD

#### Tensile Rating

	N	lbf
Installation	2700	600
Residual	800	180

#### Crush Resistance

	N/cm	lbf/in
Short/ Long Term	220/110	125/63

#### Temperature Ratings

	°C	°F
Operation	-40 to +70	-40 to +158
Installation	-30 to +60	-22 to +140
Storage/Shipping	-40 to +75	-40 to +167

## MassLink™ Indoor/Outdoor

Multi-Tube Ribbon cable for transitional aerial and duct applications

### Nominal Cable Design Parameters

Flame Rating		Riser	Low-Smoke, Zero-Halogen
Fiber Count		288-432	288-432
12f Ribbons/Tube		4-6	4-6
Tube Positions		6	6
Buffer Tube OD	(mm)	6.2	6.2
	(inches)	0.24	0.24
Cable OD	(mm)	22.6	22.6
	(inches)	0.84	0.84
Cable Weight	(kg/km)	405	415
	(lb/kft)	272	278
Max. Length	(m)	5,867	5,867
	(ft)	19,244	19,244

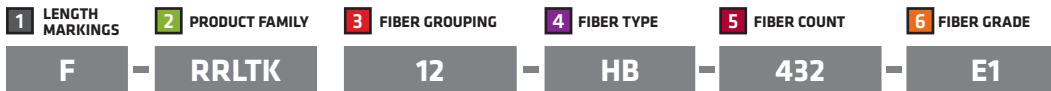
### Nominal Interlock Armor Design Parameters

Flame Rating		Riser
Fiber Count Range		288-432
Cable OD	(mm)	31.5
	(inches)	1.24
Cable Weight	(kg/km)	897
	(lb/kft)	603
Max. Length	(m)	3,400
	(ft)	11,155

### ORDERING GUIDE

The Prysmian Group part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below.

**Example:** Riser Rated, 432 count, MassLink™ Indoor/Outdoor Cable with G.652.D LWP Single-Mode Fiber and 0.40/0.40/0.30 attenuation.



### PART NUMBER CONSTRUCTION

#### 1 LENGTH MARKINGS

F = Feet or M = Meters

#### 2 PRODUCT FAMILY & CONSTRUCTION

- RRLTK = MassLink™ Indoor/Outdoor (Riser)
- RRLTKAJ = MassLink™ Indoor/Outdoor Interlock Armor (Riser)
- RZLTK = LSZH MassLink™ Indoor/Outdoor (OFN)

#### 3 FIBER GROUPING

12 = 12f Ribbons

Note: Please refer to the fiber code addendum for additional fiber options, or contact us for help.

### FIBER INFORMATION

#### 4 FIBER TYPE

##### SINGLE-MODE

- HB = Single-Mode (ITU G.652 C & D) Low Water Peak
- ES = Enhanced Single-Mode (ITU G.652 C & D)
- CE = Corning™ SMF28e+ Single-Mode
- B1 = Bend Insensitive Single-Mode (ITU G.657.A1 & G.652.D)
- BB = BendBright™ Single-Mode (ITU G.657.A1 & G.652.D)
- BX = BendBrightXS™ Single-Mode (ITU G.657.A2 & .B2, & G.652.D)

##### (RISER RATED CABLES ONLY)

MULTIMODE	Wavelength (nm)	Bandwidth (MHz)	1 GbE Dist (m)	10 GbE Dist (m)
G6 = OM1 (62.5µm)	850/1300	200/500	300/550	33/___
G5 = OM2+ BIF (50µm)	850/1300	700/500	800	150/___
G3 = OM3 BIF (50µm)	850/1300	1500/500	1000	300/___
G4 = OM4 BIF (50µm)	850/1300	3500/500	1100	550/___

#### 5 FIBER COUNT

288-432 fibers

#### 6 FIBER GRADE

##### SINGLE-MODE

Attenuation (dB/km)	Wavelength (nm)	Fiber Type
E1 = 0.40/0.40/0.30	1310/1383/1550	HB, ES, CE, B1, BB, or BX
E3 = 0.35/0.35/0.25	1310/1383/1550	HB, ES, CE, B1, BB, or BX

##### MULTIMODE

Attenuation (dB/km)	Wavelength (nm)
M2 = 3.5/1.0	850/1300
M3 = 3.0/1.0	850/1300

Other cable constructions and fiber performance grades available on request. Multimode fibers are only available in riser rated cables only